

## ABSTRACT OF THE DISCLOSURE

A drive circuit has a judgement circuit for judging whether the magnitude of the input video data resides in a linear region or the non-linear region of characteristic of liquid crystal transmittance. When the  
5 vide data resides within the linear region, some of the output gray-scale voltage for the LCD are generated by interpolation of adjacent two of the gray-scale voltages generated by a voltage generator. The reduced gray-scale voltage taps reduces the circuit scale and the test  
10 procedures for the drive circuit.